

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (original): An organic light-light conversion device comprising:  
  
a light sensing unit having a layer including a photo-conductive organic semiconductor that causes a photo-current multiplication phenomenon by light irradiation, and  
  
a light emitting unit having a layer including an electroluminescent organic semiconductor that emits light by current injection, characterized in that  
  
at least one of the photo-conductive organic semiconductor and the electroluminescent organic semiconductor is a polymer semiconductor.
2. (original): The organic light-light conversion device according to claim 1, wherein the photo-conductive organic semiconductor is a polymer semiconductor.
3. (original): The organic light-light conversion device according to claim 1, wherein the electroluminescent organic semiconductor is a polymer semiconductor.
4. (original): The organic light-light conversion device according to any one of claims 1 to 3, wherein the photo-conductive organic semiconductor and the electroluminescent organic semiconductor are polymer semiconductors.
5. (currently amended): The organic light-light conversion device according to any one of claims ~~1 to 4~~1 to 3, comprising:

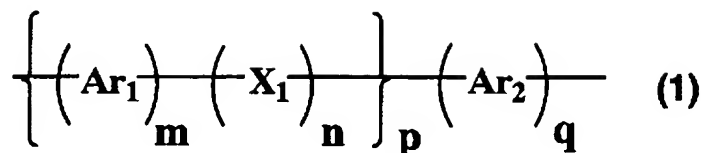
- a) a light sensing unit having a layer including the photo-conductive organic semiconductor,
- b) a light emitting unit having a layer including the electroluminescent organic semiconductor placed on a different location from the light sensing unit on the same substrate, and
- c) a conductive layer connecting the light sensing unit to the light emitting unit laid on the same substrate.

6. (original): The organic light-light conversion device according to claim 5, wherein a light shielding member is provided between the light sensing unit and light emitting unit.

7. (original): The organic light-light conversion device according to claim 5, wherein a translucent member having a transmittance that suppresses but does not completely shield the flow of feedback light into the light sensing unit is provided between the light sensing unit and the light emitting unit.

8. (currently amended): The organic light-light conversion device according to any one of claims ~~1 to 4~~ 1 to 3, wherein the light sensing unit having a layer including the photo-conductive organic semiconductor is integrally laminated with the light emitting unit having a layer including the electroluminescent organic semiconductor.

9. (currently amended): The organic light-light conversion device according to any one of claims ~~1 to 8~~ 1 to 3, wherein the polymer semiconductor contains one or more repeating units represented by the following Formula (1):



wherein Ar<sub>1</sub> and Ar<sub>2</sub> each independently represent an arylene group or a divalent heterocyclic group; X<sub>1</sub> represents -CR<sub>1</sub>=CR<sub>2</sub>-, -C≡C- or -N(R<sub>3</sub>)-; R<sub>1</sub> and R<sub>2</sub> each independently represent a hydrogen atom, an alkyl group, an aryl group, a monovalent heterocyclic group, a carboxyl group, a substituted carboxyl group or a cyano group; R<sub>3</sub> represents a hydrogen atom, an alkyl group, an aryl group, a monovalent heterocyclic group, an arylalkyl group or a substituted amino group; m, n and q each independently represent an integer of 0 or 1; p represents an integer of 0 to 2; and m + n and p + q are each 1 or more, provided that Ar<sub>1</sub>, X<sub>1</sub>, R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub>, if they are each multiple, can be respectively identical or different, and has a polystyrene-converted number average molecular weight of 1 × 10<sup>3</sup> to 1 × 10<sup>8</sup>.

10. (currently amended): The organic light-light conversion device according to any one of claims ~~1 to 9~~ 1 to 3, wherein the layer including the photo-conductive organic semiconductor and/or the layer including the electroluminescent organic semiconductor contains two or more polymer semiconductors containing one or more repeating units represented by Formula (1).

11. (currently amended): An image intensifier characterized by comprising a plurality of ~~the an~~ organic light-light conversion devices ~~according to any one of claims 1 to 10~~ arranged comprising:

\_\_\_\_\_ a light sensing unit having a layer including a photo-conductive organic semiconductor that causes a photo-current multiplication phenomenon by light irradiation, and  
\_\_\_\_\_ a light emitting unit having a layer including an electroluminescent organic semiconductor that emits light by current injection, characterized in that  
\_\_\_\_\_ at least one of the photo-conductive organic semiconductor and the electroluminescent organic semiconductor is a polymer semiconductor.

12. (currently amended): A light sensor characterized by comprising ~~the~~ an organic light-light conversion device ~~according to any one of claims 1 to 10~~ comprising:

\_\_\_\_\_ a light sensing unit having a layer including a photo-conductive organic semiconductor that causes a photo-current multiplication phenomenon by light irradiation, and  
\_\_\_\_\_ a light emitting unit having a layer including an electroluminescent organic semiconductor that emits light by current injection, characterized in that  
\_\_\_\_\_ at least one of the photo-conductive organic semiconductor and the electroluminescent organic semiconductor is a polymer semiconductor, and a means to measure and output a voltage applied to both ends of the layer including the electroluminescent organic semiconductor.